PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference P 5409	FOR FURTHER ACTION	See item 4 below				
	International filing date (day/month/year) 20 January 2005 (20.01.2005)	Priority date (day/month/year) 23 January 2004 (23.01.2004)				
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237						
Applicant MEDIZINISCHES LASERZENTRUM LUEBECK GMBH						

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1.	 This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a). 							
2.	This REPORT consists of a total of 5 sheets, including this cover sheet.							
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.							
3.	3. This report contains indications relating to the following items:							
	Box No. I Basis of the report							
	Box No. II	Priority	riority					
	Box No. III	Non-establishment of opin applicability	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
	Box No. IV	Lack of unity of invention	•					
	Box No. V		Article 35(2) with regard to novelty, inventive step or industrial explanations supporting such statement					
	Box No. VI Certain documents cited							
	Box No. VII Certain defects in the international application							
	Box No. VIII	Certain observations on the	e international application					
4.	4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).							
			Date of issuance of this report 18 October 2006 (18.10.2006)					
The International Bureau of WIPO			Authorized officer					
34, chemin des Colombettes 1211 Geneva 20, Switzerland			Agnes Wittmann-Regis					
L	Facsimile No. +41 22 338 82 70 e-mail: pt06@wipo.int Form PCT/IB/373 (January 2004)							

PATENT COOPERATION TREATY

TRANSLATION From the INTERNATIONAL SEARCHING AUTHORITY WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) See Form PCT/ISA/210 Date of mailing (day/month/year) (sheet 2) Applicant's or agent's file reference FOR FURTHER ACTION P 5409 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/DE2005/000076 20.01.2005 23.01.2004 International Patent Classification (IPC) or both national classification and IPC A61 B5/00, G01 B9/02, G01 N21/47 MEDIZINISCHES LASERZENTRUM LUEBECK GMBH This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/EP Authorized officer Facsimile No. Telephone No.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/DE2005/000076

Box	No. I	Basis of this opinion					
1.		regard to the language, this opinion has been established on the basis of the international application in the language in which it was unless otherwise indicated under this item.					
		This opinion has been established on the basis of a translation from the original language into the following language					
		, which is the language of a translation furnished for the purposes of international search (under					
	_	Rule 12.3 and 23.1(b)).					
2.		h regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed intion, this opinion has been established on the basis of:					
	a.	type of material					
		a sequence listing					
		table(s) related to the sequence listing					
	. b .	format of material					
		in written format					
		in computer readable form					
	c.	time of filing/furnishing					
		contained in the international application as filed.					
		filed together with the international application in computer readable form.					
		furnished subsequently to this Authority for the purposes of search.					
_	$\overline{}$						
3.	Ш	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as					
		filed or does not go beyond the application as filed, as appropriate, were furnished.					
4.	Addi	itional comments:					
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/DE2005/000076

Box			ule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; pporting such statement	
1.	Statement		·	
	Novelty (N)	Claims	1-8	YES
		Claims		. NO
	Inventive step (IS)	Claims	1-8	YES
		Claims		NO
	Industrial applicability (IA)	Claims	1-8	YES
•		Claims		NO

- 2. Citations and explanations:
 - Reference is made to the following document:
 D1: DE 37 30 091 Al (WILD HEERBRUGG AG; WILD
 LEITZ AG, HEERBRUGG, CH) 6 October 1988
 (1988-10-06)
 - Document D1 is considered to be the closest prior art. It discloses (the references between parentheses apply to said document):

a measurement device for white light interferometry, comprising a light source (1) and a mask (6) placed in front of a linear sensor (7) of an evaluation unit. The grating spacings of the mask correspond as exactly as possible to the spacing of the interference fringes on the interferogram,

from which the subject matter of independent claim 1 differs in that the grating spacings of the mask do not correspond to the spacings of the interference fringes (difference of approximately 5%-10%, see description, page 8).

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/DE2005/000076

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement 2.1 Therefore, the subject matter of claim 1 is novel (PCT Article 33(2)). 2.2 The technical problem to be solved by the present invention can therefore be considered that of realising a measurement device for white light interferometry without moving components, but which nevertheless allows the simple separation of useful signal and background. 2.3 The solution to this problem as proposed in claim 1 of the present invention is based, for the following reasons, on an inventive step (PCT Article 33(3)): in document D1, good separation of useful signal and background is only achieved by the linear sensor when movable components are appropriately arranged. In contrast, the invention in claim 1 achieves the aim by suitably defining the grating spacings, taking several parameters into account (see equation in claim 1). Claims 2-8 depend on claim 1 and therefore 2.4 likewise meet the PCT requirements for novelty and

inventive step.